

AN AUTOMATION SYSTEM FOR A CRYOGENIC FREEZER

Valeriu Damian, Cristian Iosifescu, Gelu Coman,
"Dunărea de Jos" University of Galați

ABSTRACT

The paper presents an automation system for a liquid nitrogen cryogenic freezer for quick freezing of meat products, using both the evaporation latent heat of liquid nitrogen and sensible heat of nitrogen vapor. The suggested automation design partially solves the problem of automatic control of the conveyor speed. The dynamic model gives data using computer simulation. This equipment was designed by the author and is fully operational at the Thermal Engines Department, "Dunărea de Jos" University of Galați.

REFERENCES

1. Niculită, P., Ceangă, E., Bumbaru, S. - *Automatizarea instalațiilor frigorifice industriale*. Ed. Tehnică, Bucureşti, 1983.
2. Ceangă, E. - *Automatizarea instalațiilor frigorifice*, Universitatea din Galați, 1988.
3. Damian, V. - *Teza de Doctorat*, Galați, 1995
4. Damian, V., Vasilescu, C. - *Congelarea criogenică a produselor din carne*, Ed. Evrika, Brăila, 1997.